

DIALOG(R)File 352:Derwent WPI

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013229879 \*\*Image available\*\*

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Production of tyre, involves orientation of short fibres by pressing

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Number of Countries: 027 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1006007	A2	20000607	EP 99309669	A	19991201	200035 B
JP 2000168315	A	20000620	JP 98343283	A	19981202	200036
US 6374885	B1	20020423	US 99450660	A	19991130	200232

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1006007	A2 E	9	B60C-011/12	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

JP 2000168315	A	7	B60C-011/12
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US 6374885	B1		B60C-009/12
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Abstract (Basic): EP 1006007 A2

NOVELTY - All fibres are orientated in the radial direction, using pressing thin plates.

DETAILED DESCRIPTION - Studless tyre is made by pressing thin plates into the tread rubber, to orientate short fibres in the tread, and vulcanizing tread rubber. The tread portion (2) includes sipes (9).

An INDEPENDENT CLAIM is also included for the tyre produced, comprising 100 pts. wt. rubber and 2-30 pts. wt. short fibres. The fibres are provided in a ground contacting region with sipes (9).

Preferred Features: The fibres are 0.3-20 mm long and have a diameter not more than 30 micrometers. The plate is 0.2-0.5 mm thick.

USE - None given.

ADVANTAGE - The tyre has improved wet grip performance, especially on ice covered roads. The tyre has good road surface scratching effect and wear resistance.

DESCRIPTION OF DRAWING(S) - Developed view showing the tread pattern of the tyre.

Sipes (9)

Tread portion (2)

Tread grooves (10, 11, 12)

Tread blocks (13, 14)

pp; 9 DwgNo 2/4

Title Terms: PRODUCE; TYRE; ORIENT; SHORT; FIBRE; PRESS

Derwent Class: A35; A95; Q11

International Patent Class (Main): B60C-009/12; B60C-011/12

International Patent Class (Additional): B29C-033/02; B29C-035/02;

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File Segment: CPI; EngPI

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Polymer Indexing (PS):

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\*001\* 018; H0124-R; M9999 M2073; L9999 L2391; L9999 L2073

\*002\* 018; R24073 D01 D02 D03 D12 D10 D51 D53 D59 D85 P0599 H0124 B5061;  
M9999 M2073; L9999 L2391; L9999 L2073

\*003\* 018; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84; H0000;  
H0124-R; M9999 M2073; L9999 L2391; L9999 L2073; P0328 ; P0339

\*004\* 018; ND01; K9416; Q9999 Q9256-R Q9212; K9892; N9999 N6439; N9999  
N7261; B9999 B5367 B5276; B9999 B5287 B5276; K9665; N9999 N5970-R;  
N9999 N6939-R

\*005\* 018; A999 A419; S9999 S1092 S1070; B9999 B5254 B5243 B4740

\*006\* 018; R05085 D00 D09 C- 4A; A999 A237; A999 A419; A999 A771

\*007\* 018; R01694 D00 F20 O- 6A Si 4A; A999 A237; A999 A771

\*008\* 018; D01 Si 4A; A999 A033

\*009\* 018; G3474 D01 D02 D50; A999 A340-R; S9999 S1376; A999 A771

\*010\* 018; A999 A486-R

\*011\* 018; G2891 D00 Si 4A; A999 A419; A999 A771; S9999 S1070-R; B9999  
B5254 B5243 B4740

\*012\* 018; R00122 D01 D11 D10 D50 D93 F36 F35; R01725 D00 D09 S- 6A;  
R01520 D00 F20 Zn 2B Tr O- 6A; A999 A157-R; A999 A771

\*013\* 018; D01 D11 D10 D50 D60 D63 D83 F36 F35 P- 5A; R00618 D01 D14 D13  
D24 D22 D33 D41 D43 D50 D76 D77 D93 F00 F15 F65; A999 A146; A999  
A771